Page 1 of 4

API 47-051 -	0310 W	County Marshall		District Franklin	:	<u>. </u>
Quad New Martinsville		Pad Name N/A		Field/Pool Name	N/A	
Farm name Axiall Corp.				Well Number N	o. 8 Injection	
Operator (as registered w	ith the OOG)	Eagle Natrium LLC	Axiall Corp.			;
Address N. St. Rt. 2,		City New	v Martinsville	State WV	Zip	26155
To Landing Point of	f Curve No	Attach an as-drilled orthingorthing		, and deviation survey Easting Easting Easting		
Elevation (ft)	GL	Type of Well 1	□New B Existing	Type of Repo	ort 🗆 Interim	□Final
Permit Type Devia	ited 🗆 Hoi	izontal Horizon	tal 6A 🗂 Vertic	cal Depth Type	Deep	□ Shallow
Type of Operation □ Co	nvert 🗆 De	epen 🗆 Drill 🗆	Plug Back □ F	Redrilling	k 🗆 Stimula	te
Well Type □ Brine Disp	osal CBM	□ Gas □ Oil □ Sec	ondary Recovery	■ Solution Mining □	Storage 🗆 O	ther
Type of Completion	_	ple Fluids Produc	ced □ Brine □	Gas □ NGL □ Oi	I □ Other <u>W</u>	ater Injection
Drilling Media Surface Production hole	□ Mud ■ .ve(s)			iate hole □ Air □ N	ſud □ Fresh \	Water □ Brine
Date permit issued1		Date drilling comn		Date drilling	ng ceased	2/25/2014
Date completion activitie		N/A	A1/A	activities ceased	2114	
Verbal plugging (Y/N) _	<u>N</u> D	ate permission granted	ıN/A	Granted by	N/A	
Please note: Operator is	required to sub	mit a plugging applica	ation within 5 days	of verbal permission t	o plug	
Freshwater depth(s) ft		50'	Open mine(s) (Y/	N) depths	N/A	
Salt water depth(s) ft	4050	-1750'	•	red (Y/N) depths	N/A	
Coal depth(s) ft	240' -	260'	Cavern(s) encoun	tered (Y/N) depths	N/	A
Is coal being mined in are	ea (Y/N)	N		eived Oil & Gas	Revie	wed by:
			NOV 2	4 2014		

WAS WELL COMPLETED AS SHOT HOLE

WAS WELL COMPLETED OPEN HOLE?

API 47- 051 _ 0310 W

____ Farm name_Axiall Corp.

_____Well number_No. 8 Injection

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
N/A					
	-				
	_				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
N/A						1		
								-
f								
			·		Descived.			

Please insert additional pages as applicable.

Received
Office of Oil & Gas

NOV 24 2014

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API 47- 051	0310W	Farm	name Axiall Co	orp.		Well num	er No. 8 Inje	ction
API 4/-	-	raim	name	•		wen name		
PRODUCING I	FORMATION	<u>I(S)</u>	<u>DEPTHS</u>					
N/A				_TVD		MD		
E.F.				<u></u> -1				
				 8				
Please insert ad	ditional pages	as applicable.						
GAS TEST	□ Build up	□ Drawdown	□ Open Flow		OIL TEST	Flow 🗆 Pur	np	
SHUT-IN PRE	SSURE Su	rface	_psi Botto	m Hole_	psi	DURATION	OF TEST _	hrs
OPEN FLOW		Oil efpd	NGL bpd	_ bpd	Water bpd		SURED BY	□ Pilot
LITHOLOGY/	ТОР	воттом	ТОР	ВОТТО		DOOK TURE A	un nucconn ou	
FORMATION	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN MD			ND RECORD QUA ATER, BRINE, O	IL, GAS, H ₂ S, ETC)
	0	-	0					
Please insert ad	ditional pages	as applicable.						
Drilling Contra	ctor Viking Dri	illing						
			City			State	Zip	
Logging Compa			City			Ct-t	7'	
			City			State	Zıp	
Cementing Con			Cite		e	Ctata	7:	
						state	Zip	
Stimulating Co Address	mpany N/A		City		_	State	Zin	
		as applicable.	City			51410	Zip	Received
Completed by	Edward T. Mo	Laughlin			Telanhana	304-455-220	0-3476 Off	ice of Oil & (
Signature	ward T	- Mckend	7 Title B	rine Field Er	relephone ngineer	Date	11/20/2014	ice of Oil & 0 NOV 24 2014
Culamittal - CTT	idani! - E		Disala I C		A Appending to the second	CED + CEC	10 D	NUV 24 2014
Submittal of Hy	draulic Fractu	uring Chemical	Disclosure Info	rmation	Attach copy o	f FRACFOCI	JS Registry	

WR-35 Rev. 8/23/13

API 47 051 0313 W	County Marshall	1	District Franklin	
Quad New Martinsville, WV	Pad Name N/A	<u> </u>	Field/Pool Name N/	Α
Farm name Axiall Corp.			Well Number No. 9	
Operator (as registered with the OOG)	agle Natrium LLC/A	Axiall Corp.		
Address N. St. Rt. 2,			State WV	_{Zip} <u>26155</u>
Landing Point of Curve Nor	Attach an as-drilled pthingthingthingthing	East	inging	
Elevation (ft) GL	Type of Well □N	lew Existing	Type of Report	□Interim □Final
Permit Type Deviated Horiz	ontal Horizontal	6A	Depth Type	□ Deep □ Shallow
Type of Operation □ Convert □ Deep	oen 🗆 Drill 🗆 Pl	ug Back □ Redril	ling B Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM □	Gas 🗆 Oil 🗆 Secon	dary Recovery B So	olution Mining Sto	rage 🗆 Other
Type of Completion □ Single □ Multip Drilled with □ Cable ■ Rotary	le Fluids Produced	d □ Brine □Gas	□ NGL □ Oil	Other Water Injection
Drilling Media Surface hole □ Air □ Production hole □ Air □ Mud ■ Fr Mud Type(s) and Additive(s) Brine Water mixed with 2%KCL		Intermediate h	ole 🗆 Air 🗆 Mud	□ Fresh Water □ Brine
Date permit issued12/16/2013	Date drilling commen	nced1/2/2014	Date drilling o	eased 2/21/2014
Date completion activities began	N/A	*	vities ceased	•
Verbal plugging (Y/N) N Dat	e permission granted _	N/A	Granted by	N/A
Please note: Operator is required to subm	it a plugging application	on within 5 days of v	erbal permission to pl	ug
Freshwater depth(s) ft5	0' C	pen mine(s) (Y/N) d	epths	N/A
Salt water depth(s) ft 1050'-1	750' _V	oid(s) encountered (Y/N) depths	N/A
Coal depth(s) ft 256' - 2	61' c	avern(s) encountered	(Y/N) depths	N/A
Is coal being mined in area (Y/N)	N	Receive Office of Oil		Reviewed by:
		NOV 24 20	14	

WR-35 Rev. 8/23/13								ı	Page of
API 47-051	0313 W	Fa	_{me_} Axiall C	orp.		Wa	ul numbon N	No. 9 Injectio	on
		rarm na	me			we			
CASING TRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		t circulate (Y/ N) details below*
onductor	JIZC	16"	60'	1	1		Jopanies -	1101100	- Contract of the contract of
ırface		1.5							
oal		13 3/8"	441'		H-40 @4	18.91b/ft			
ntermediate 1		10 3/4"	1528'		H-40 @				
ntermediate 2					1				
ntermediate 3				1	1				
roduction		8 5/8"	6804'	1	J55 @	36lb/ft			
ubing		5 1/2"	6264'		J-55 @				
acker type and de	epth set	Peak Technology	SMP-X 5 1/2" i	in 8 5/9" set a			l	t	
omment Details 948', 3290' to 3288		of 5 1/2" liner. Perforations eezed from 4950' to 4271						urposes. Perfs. wer	re made at 4950' to
CEMENT DATA	Class/Type of Cemen				Yield ft ³/sks)	Volume		ement (MD)	WOC (hrs)
onductor									
urface									<u> </u>
oal									
termediate I		530 Sac	ks						·
termediate 2									
itermediate 3									
roduction		400 Sac	ks						
ubing									
Orillers TD (ft Deepest forma Plug back pro-	tion penetrate	d N/A			rD (ft) N/A to (ft) N/A				
Cick off depth	(ft) <u>N/A</u>								
Check all wire	line logs run	■ caliper □ neutron	□ density □ resistivit		ted/direction na ray		induction temperature	sonic	
Well cored □	Yes □ No	Convention	onal Side	ewall	Wer	re cutting	gs collected	□ Yes □	No
DESCRIBE TI	HE CENTRA	LIZER PLACEME	ENT USED F	OR EACH C	ASING STI	RING <u>'</u>	N/A		
VAS WELL C	COMPLETED	AS SHOT HOLE	Yes	No D	ETAILS N	₩A			
VAS WELL (COMPLETED	OPEN HOLE?	□ Yes □ 1	No DET	AILS N/A			F	Received
VERE TRAC	ERS USED	□ Yes □ No	TYPE OF	TRACER(S)	USED N/A			Office	of Oil & C
								NO	V 2 4 2014

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API 4	17- <u>051</u> - <u>0313</u> W	Farm nar	_{me_} Axiall Corp.		Well number No. 9 Injection	_
			PERFORATI	ON RECORD		
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)	
N/A						
					-	
					İ	
					· · · · · · · · · · · · · · · · · · ·	

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
N/A								
· • · · ·								

Please insert additional pages as applicable.

Received Office of Oil & Gas

ev. 8/23/13	0212 \		Aviall Co	orn.			No 9 Inje	ction
PI 47- 051	_ 0313 70	Farm	name Axiali CC	лр.		Well numb	er_110. 5 111jc	Ottori
RODUCING	FORMATION(<u>S)</u>	<u>DEPTHS</u>					
/A				_ TVD		MD		
				_				
				_				
ease insert ad	ditional pages a	as applicable						
		2525	- O Fl		OH TEST -	Class - Dur		
					OIL TEST			
HUT-IN PRE	SSURE Surf	face	_psi Botto	m Hole	psi	DURATION	OF TEST _	hrs hrs
PEN FLOW					Water bpd			□ Pilot
THOLOGY/	TOP	воттом	ТОР	ВОТТО	M			
ORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN	FT DESCRIBE			
	NAME TVD 0	TVD	MD 0	MD	TYPE OF FI	LUID (FRESHW	ATER, BRINE, O	IL, GAS, H ₂ S, ETC)
	0		0					
ease insert ad	lditional pages a	as applicable.						
	ctor Viking Drill		O''			Ct	7.	
ogging Comp	any Baker Hugh	nes	City			State	Zip	
ddress			City			State	Zip	
imulating Co	mpany N/A							
ddress			City	8		State	Zip	
ease insert ad	lditional pages a	as applicable.						
ompleted by	Edward T. McL	aughlin			Telephone	304-455-220	0-3476	
	Want T K	1-1010	Title Br	rine Field Er	ngineer	Date	11/20/2014	Received



WR-35 Rev. 8/23/13

المراشع به

State of West Virginia

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 - 051 - 0443 W County	Marshall	District Franklin	<u> </u>
	ame N/A	Field/Pool Name N/A	
Farm name Axiall Corp.		Well Number No. 10	Injection
Operator (as registered with the OOG) Eagle Na Address N. St. Rt. 2,	atrium LLC/Axiall Corp.	State WV	
Top hole Northing Landing Point of Curve Northing	an as-drilled plat, profile viev	w, and deviation survey Easting Easting Easting	-
Elevation (ft) GL Typ	be of Well □New ■ Existing	g Type of Report	Interim Final
Permit Type Deviated Horizontal	□ Horizontal 6A	cal Depth Type	Deep Shallow
Type of Operation □ Convert □ Deepen □	Drill 🗆 Plug Back 🗖	Redrilling B Rework c	Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □	Oil 🗆 Secondary Recovery	■ Solution Mining □ Store	ge 🗆 Other
Type of Completion □ Single □ Multiple F Drilled with □ Cable ■ Rotary	Fluids Produced 🗆 Brine 🗆	Gas 🗆 NGL 🗆 Oil 🗆	Other Water Injection
Drilling Media Surface hole		liate hole	□ Fresh Water □ Brine
		n activities ceased	nsed 10/25/2013 N/A N/A
Please note: Operator is required to submit a plug	gging application within 5 day	s of verbal permission to plu	g
Freshwater depth(s) ft 50'	Onen mine(s) (V	/N) depths	N/A
Salt water depth(s) ft 1050'-1760'		ered (Y/N) depths	N/A
Coal depth(s) ft 252' - 258'		ntered (Y/N) depths	N/A
Is coal being mined in area (Y/N)	N Rece	eived Oil & Gas	Reviewed by:

NOV 2 4 2014

WR-35

API 47_051 - 0443 W Farm name Axiall Corp.	Rev. 8/23/13	/										
TITINIOS Size Size Depth Used w/th Depth(s) *Provide details below* Confidence 16° 61° New 52.36	API 47- 051	- 0443 W	Farm n	ame_Axia	all Corp.			We	ll numbe	r_No. 10) Inject	ion
Conductor 16° 61' New 52.36			•	Deptl								1
Together type and depth set Comment Details Perforations were made in the 7* Production casing to perform a squeeze job, not for facing purposes. The perfs, were made from 5050* to 5055*. Cement was squeezed from 5060* to 3120*. CEMENT Class/Type Number of Saeks Vel (ppg) (ft //sks) (f						lew	5:	2.36				
Intermediate I 10 3/4" 1611' New 32.75 Intermediate 2	Surface											
Intermediate 2	Coal										-	1
Intermediate 3	ntermediate 1		10 3/4"	1611	' N	New	3:	2.75				:
Production 7° 6808.62′ New J55 @ 26lb/ft Production 7° 6808.62′ New J55 @ 26lb/ft Production 9° 6808.62′ New M(ppg) (1° 1° 18 No. 10 No.	Intermediate 2											
Tubing Packet type and depth set Comment Details Perforations were made in the 7° Production casing to perform a squeeze jeb, not for fracing purposes. The perfit, were made from 5080° to 5088°. Cement was squeezed from 5080° to 5120°. CEMENT Class/Type Number of Sacks Wit (ppg) (R 1° Jisks) (R 1° Jis	Intermediate 3							_				
Packer type and depth set Comment Details Perforations were made in the 7* Production casing to perform a squeeze job, not for fracting purposes. The perfs, were made from 5000* to 5008*. Cement was squeezeed from 5000* to 3120*. CEMENT	Production		7"	6808.6	52' N	Vew	J55 @	26lb/ft				
Comment Details Perforations were made in the 7° Production casing to perform a squeeze job, not for fracing purposes. The perfs. were made from 5050′ to 5059. Cement was squeezed from 5050′ to 5120′. CEMENT Class/Type DATA / of Cement of Sacks Number of Sacks	Tubing											
CEMENT Class/Type Number of Sacks wit (ppg) (R 7sks) (Q 2) Top (MD) (hrs) Conductor Surface Coal Intermediate 1 888 Sacks Intermediate 2 Intermediate 3 Production 360 Sacks Intermediate 3 Production Intermediate 3 Production Intermediate 3 Production Intermediate 3 Production Intermediate 4 Intermediate 5 Intermediate 6 Intermediate 7 Intermediate 8 Intermediate 8 Intermediate 9 Intermediate	Packer type and de	epth set					<u> </u>					
DATA Of Cement of Sacks wit (ppg) (R 3/sks) (D 1 Top (MD) (hirs) Conductor Surface Coal Intermediate 1 888 Sacks Intermediate 2 Intermediate 3 Security Sec			nade in the 7" Product	ion casing to p	perform a squee	ze job, no	t for fracing p	urposes. The	perfs. were	made from 50	60° to 5058	. Cement was
Conductor Surface Cocal Intermediate 1 888 Sacks Intermediate 2 Intermediate 3 Production 360 Sacks Tubing Drillers TD (ft) No Deepest formation penetrated No Plug back to (ft) No Deepest formation penetrated No Plug back procedure No Check all wireline logs run neutron resistivity gamma ray temperature sonic Well cored res No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING WAS WELL COMPLETED AS SHOT HOLE res No DETAILS WAS WELL COMPLETED OPEN HOLE? res No DETAILS No Received Office of Oil &									e			
Intermediate 1 888 Sacks		or Cement	Or Sac	<u></u>	··· (PPS)		, ronaj	<u> </u>		TOP (MID)		(illa)
Intermediate 1 888 Sacks Intermediate 2 Intermediate 2 Intermediate 2 Intermediate 3 Intermediate 4 Intermediate 4 Intermediate 5 Intermediate 6 Intermediate 6 Intermediate 6 Intermediate 6 Intermediate 7 Intermediat	Surface					1					\dashv	-
Intermediate 2	Coal				···	 						
Intermediate 2	Intermediate 1		888 52	cks		 		 			\dashv	
Production 360 Sacks Dribing Drillers TD (ft) Na Loggers TD (ft) NA Deepest formation penetrated NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back procedure NA Plug back to (ft) NA Plug back procedure NA Plug back procedur			300 38	<i>-</i>		+-	·	<u> </u>				
Production 360 Sacks Tubing Loggers TD (ft) N/A Deepest formation penetrated N/A Plug back to (ft) N/A Plug back procedure N/A Check all wireline logs run Caliper density deviated/directional induction neutron neutron resistivity gamma ray temperature sonic Well cored Yes No Conventional Sidewall Were cuttings collected Yes No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING N/A WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS N/A WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS N/A Received Office of Oil & Office of Oil & Caliper Organical					\vdash					\dashv		
Drillers TD (ft) N/a		<u>.</u>	360 Sa	cks		 					+	
Plug back to (ft) NA Plug back to (ft) NA Plug back procedure NA Check all wireline logs run	Tubing					 						
Check all wireline logs run	Deepest format	tion penetrated	N/A								- -	
□ neutron □ resistivity □ gamma ray □ temperature □ sonic Well cored □ Yes □ No Conventional Sidewall Were cuttings collected □ Yes □ No DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING NA WAS WELL COMPLETED AS SHOT HOLE □ Yes □ No DETAILS NA WAS WELL COMPLETED OPEN HOLE? □ Yes □ No DETAILS NA Received Office of Oil &	•		Baslinar	= dom		-	ad/directi	ional 5	industis	_	,	
WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS NA Received Office of Oil & Office of Oil &	Check an when	inie iogs run	•		•						sonic	
WAS WELL COMPLETED AS SHOT HOLE	Well cored	Yes 🗆 No	Convent	onal	Sidewall		W	ere cuttin	gs collec	ted 🗆 Ye	es 🗆 1	No
WAS WELL COMPLETED AS SHOT HOLE	DESCRIBE TI	HE CENTRAL	IZER PLACEM	ENT USE	ED FOR EA	ACH C	ASING S	TRING _	N/A			
WAS WELL COMPLETED OPEN HOLE? - Yes - No DETAILS NA RECEIVED Office of Oil &												
WAS WELL COMPLETED OPEN HOLE? - Yes - No DETAILS NA RECEIVED Office of Oil &												
WAS WELL COMPLETED OPEN HOLE? - Yes - No DETAILS NA RECEIVED Office of Oil &												
Office of Oil &	WAS WELL C	COMPLETED	AS SHOT HOL	E o Ye	es 🗆 No	DI	ETAILS	N/A				
•	WAS WELL C	COMPLETED	OPEN HOLE?	□ Yes	□ No	DET	AILS N	Α				
10114 Zi I = 0.1.	WERE TRACI	ERS USED 🗆	Yes 🗆 No	ТҮРЕ	OF TRACE	ER(S)	USED N	A				1

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API 4	47- <u>051</u> - <u>0443</u> W	Farm na	me_Axiall Corp.		Well number_No. 10 Injection
			PERFORATI	ON RECORD	
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
N/A					
					i

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
N/A			_					
	:							
								:
								-
					<u>-</u>			
L								

Please insert additional pages as applicable.

Received Office of Oil & Gas NOV 2 4 2014

API 47 - 051 - 0523 W County Marsh	all District Franklin	
Quad New Martinsville, WV Pad Name N/A	Field/Pool Name N/A	<u> </u>
Farm name Axiall Corp.	Well Number No. 11	1 Injection
Operator (as registered with the OOG) Eagle Natrium LI Address N. St. Rt. 2, City N	LC/Axiall Corp. ew Martinsville State WV	_{Zip} _26155
As Drilled location NAD 83/UTM Attach an as-dril Top hole Northing Landing Point of Curve Northing Bottom Hole Northing	Easting	
Elevation (ft) GL Type of Well	□New ■ Existing Type of Report □	oInterim □Final
Permit Type Deviated Horizontal Horizontal	ontal 6A Vertical Depth Type	□ Deep □ Shallow
Type of Operation Convert Deepen Drill	□ Plug Back □ Redrilling ■ Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil □ S	econdary Recovery Solution Mining Store	age 🗆 Other
Type of Completion □ Single □ Multiple Fluids Prod Drilled with □ Cable ■ Rotary Drilling Media Surface hole □ Air □ Mud □ Fresh W		Other Water Injection
Production hole		Driesii water D billie
Mud Type(s) and Additive(s) Brine Water mixed with 2%KCL		: ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
Date permit issued10/21/2013 Date drilling cor Date completion activities began N/A Verbal plugging (Y/N) N Date permission grant Please note: Operator is required to submit a plugging apple		N/A N/A
Freshwater denth(s) ft 50'	0	N/A
Freshwater depth(s) ft 50' Salt water depth(s) ft 1050'-1750'	Open mine(s) (Y/N) depths Void(s) encountered (Y/N) depths	N/A
Coal depth(s) ft 256' - 261'	Cavern(s) encountered (Y/N) depths	N/A
Is coal being mined in area (Y/N)	Received	Reviewed by:
O.	NOV 2 4 2014	

WR-35 Rev. 8/23/13

API 47- 051	_ 0523	Farm na	me_Axiall Co	orp.	w	ell number_Ne	o. 11 Inject	on
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)		circulate (Y/N) fetails below*
Conductor		16"	62'	New	52.36			
Surface								
Coal								
Intermediate 1		10 3/4"	1609'	New	H-40 @32.75			
Intermediate 2								•
Intermediate 3								
Production		7"	8455'	New	N-80 @ 26lb/ft			
Tubing		5"	365'		N-80 @18lb/ft			
Packer type and d	epth set			· · · · · · · · · · · · · · · · · · ·	1			
COMMENT DATA	0' to 2120'. Class/Type	Numbe	r Slui	пу	Yield Volum	ne Cer	ment	woc
DATA Conductor	of Cement	of Sack	s wt (p	yyg) (ft ³ /sks) (ft ³)	100	(MD)	(hrs)
Surface								
Coal								•
Intermediate 1						Sur	face	•
Intermediate 2							1000	
Intermediate 3								
Production	<u> </u>					21	20'	
Tubing							-	
Drillers TD (ft Deepest forma Plug back pro Kick off depth	ation penetrated cedure N/A	NA			TD (ft) N/A c to (ft) N/A			
Check all wire	line logs run	■ caliper □ neutron	•		ted/directional c na ray c		□sonic	
Well cored	Yes □ No	Conventi	onal Side	ewall	Were cutting	gs collected	□ Yes □ 1	No
DESCRIBE T	HE CENTRAL	IZER PLACEM	ENT USED FO	OR EACH C	ASING STRING	N/A		
		AS SHOT HOLE						
				TO DE	`AILS <u>N/A</u>		Hec	eived
WERE TRAC	ERS USED 0	Yes 🗆 No	TYPE OF 1	ΓRACER(S)	USED N/A		NOV 2	Oil & Gas

WR-35 Rev. 8/					Page 3 of 4
API 4	7- 051 - 0523	Farm nan	ne Axiall Corp.		Well number_No. 11 Injection
				-	
			PERFORATI	ON RECORD	
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
N/A					
e.***					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
N/A								
	_							
_							-	
-				-				
				 				
				ļ		-		
	<u> </u>			-		-		1
				<u> </u>				
-								

Please insert additional pages as applicable.

Received
Office of Oil & Gas

WR-35 Rev. 8/23/13								Page 4 of 4
	_ 0523	Farm r	name_Axiall Co	orp.		Well num	_{iber} No. 11 Inje	ection
PRODUCING I	FORMATION(S	S)	<u>DEPTHS</u>					
N/A				_TVD		MD		
Please insert ad	ditional pages a	s applicable.				_		
GAS TEST			□ Open Flow		OIL TEST 🗖 I	Flow \Box Pi	ımn	
								hwa
		oil			Water		N OF TEST	nrs
OPEN FLOW			opd	bpd _	bpd bpd	☐ Estimate	ed \square Orifice	□ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT				FT DESCRIBE		AND RECORD QUA	
	NAME TVD 0	TVD	MD 0	MD	TYPE OF FL	UID (FRESHV	VATER, BRINE, O	IL, GAS, H₂S, ETC)
Please insert ad	l ditional pages a	s applicable.						
Drilling Contra	ctor Viking Drilli	ng						
						State	Zip	
Logging Compa Address	any Baker Hugh	ies	City			State	Zip	
	npany Baker Hu		City			State	Zip	
Stimulating Co								
Address			City		-	State	Zip	
	ditional pages a	7,000						Received
	Edward T. McL	aughlin	? Title B	rine Field End	Telephone	304-455-22 Da	00-3476 te 11/20/2014	Office of Oil & Ga
								NOV 2 4 2014
Submittal of Hy	draulic Fractur	ing Chemical I	Disclosure Info	mation	Attach copy o	f FRACFO	CUS Registry	



WR-35 Rev (9-11)

DATE:	1/22/13 Rev	11/12/14
API#:	47-67-00942	

e: Richwood		Operator Well No.: MWV Rupert 2H				
icholas		į				
Ain. on Sec).					
Ain. 30 Sec).					
		1				
Used in drilling	Left in well	Cement fill up Cu, Ft.				
	130	180 Tail				
	1,277'	657 Lead/196TpH				
	5,073'	1.555 Lead/360 Tail				
er er	7.062'	696 Tail				
	9,698'	696 Tail				
Tubing plug	4,526	350 1011				
Tubing plug	4,650'	 				
7	.,000					
		 				
	···	 				
		 				
		<u></u>				
i						
-						
+						
ude additional dat: 7,500-7,760 Bbl/d						
bl/d	O#:	CEIVED				
S	Onice o	f Oil and G				
urs	NOV	1 2 2014				
bl/d	WV De nvironme	partment c ental Protec				
with the informat	tion submitted of or obtaining the	on this document a				
ji	liately responsible f	ar with the information submitted diately responsible for obtaining the				

Were core samples take	en? YesNo_X	Were cut	tings caught during dri	lling? Yes X No
Were Electrical, Mecha Genore Ray (4,923' - 5,954') N	nical or Geophysical logs (WO Gamma Ray (0,590) - 7,760)	s recorded on this well? If yo Guard Hole Production Log (7,000' -9.50	es, please listFormatio	n Micro Imager (4,925' - 6,978
DETAILED GEOLO	GICAL RECORD OF	THE FOLLOWING: 1). ICAL CHANGE, ETC. 2). THE TOPS AND BOTTORE FROM SURFACE TO	THE WELL LOG W	FORATED INTERVAL HICH IS A SYSTEMATI RMATIONS, INCLUDIN
Perforated Intervals, Fra	cturing, or Stimulating:			
7,919' - 9,608' 25	5 Holes			
Plug Back Details Includ	ing Plug Type and Death	(2)		
	g 1 ug 1 ypc and Depth	(\$):		
Formations Encountered: Surface:		Top Depth		Bottom Depth
Geologic Age	<u>Formation</u>	Lithology	Ton Double	•
Mississippian	Greenbrier	Limestone	Top Depth	
Mississippian		Shale	2490 2543	2543
Mississippian	Injun	Sandstone	2343	2858
Mississippian		Shale	2875	2875
Mississippian	Squaw	Sandstone	2884	2884
Mississippian		Shale		2890
Mississippian	Weir	Sandstone	2890	2967
Mississippian		Shale	2967	2975
Mississippian	Berea	Sandstone	2975	3433
Mississippian		Shale	3433	3455
Devonian	Gordon	Sandstone	3455	3523
Devonian		_	3523	3548
Devonian	Huron	Siltstone & Shale	3548	4493
Devonian	Rhinestreet	Shale	4493	7378
Devonian	Marcellus	Organic Shale	7378	7770
	wartenus	Organic Shale	7770	TD

WR-35 Rcv (9-11)

DATE:	1/22/13	KEV.	11/12/14
API#:	47-67-00	843	

Well Operato	or's Report of	Well Work			
Farm name: MeadWestvaco Corp.	_ Operator We	II No.: MWV Rup	pert 4H		
LOCATION: Elevation: 3,065	_ Quadrangle:	Richwood			
District: Kentucky	. County: Nich	olas			
Latitude: 650 Feet South of 35 Deg.	Mii	1. 30 Sc			
Longitude 9600 Feet West of 80 Deg	Min	1Se	С.	!	
Company: BRC Operating Company, LLC	·	T			
Address: 200 Crescent Court, Suite 200	Casing & Tubing	Used in drilling	Left in well	Cement fill	
Dallas, TX 75201	20"	130'	130'	up Cu. Ft.	
Agent: Marc A. Monteleone	13 3/8"	1,555	1,555'	652 Lead/213 Tall	
Inspector: Ed Gainer	9 5/8"	6,949'	6,949'	1,852 Lent#190 Tail	
Date Permit Issued: 7/21/10	5 1/2"	12,702'	12,702'	1,684 Lend/1,487 Tail	
Date Well Work Commenced: 2/28/11		1	12,702	1,664 (240),467 (48)	
Date Well Work Completed: 5/25/12					
Verbal Plugging:					
Date Permission granted on:	 			 	
Rotary Cable Rig V					
Total Vertical Depth (ft): 7.743					
Total Measured Depth (ft): 12,702					
Fresh Water Depth (ft.): 182					
Salt Water Depth (ft.):					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft.):					
Void(s) encountered (N/Y) Depth(s) N			···		
Gas: Initial open flow 2.718 MCF/d Oil: Initial open flow Final open flow 1.300 MCF/d Final open flow	one depth (ft <u>) ^{7.0}</u> owBb	1/d	a on separate sh	nect)	
Time of open flow between initial and final tests 72	Hours			RECEIVED)
Static rock Pressure 3.100 psig (surface pressure) after	er 36 Hours		Of	fice of Oil and	C.
Second producing formation Pay zone	e denth (ft)				Go
oas. Initial open flow MCF/d Oil: Initial open flow	w Bbl	/d		NOV 1 2 2014	
Final open flow MCF/d Final open flow	Rb//	d	• •	i	
Time of open flow between initial and final tests Static rock Pressure psig (surface pressure) after	rIlours		اللفانفست	V Departmen onmental Prot	t of
ertify under penalty of law that I have personally examined an the attachments and that, based on my inquiry of those individe the information is true, accurate, and complete.	luals immediate	ely responsible (acii
Signature		111.	2/2014		
Simotura		////	4/2014		

Were core samples taken	? YesNo_X	_ Were cutting	gs caught during drilling	g? Yes_X No
Were Electrical, Mechani Genna Ray / CCL CCL-Casin	cal or Geophysical logs i	recorded on this well? If yes, p	please list	
DETAILED GEOLOG	ICAL RECORD OF	HE FOLLOWING: 1). DI CAL CHANGE, ETC. 2). TH THE TOPS AND BOTTO! RE FROM SURFACE TO TO	IE WELL LOG WHI MS OF ALL FORM	CHIE A CLETTERIAMI
Perforated Intervals, Fract	turing, or Stimulating:			
Perforations: 12,60	0' - 8,320' 525	Holes		
				:
Plug Back Details Includir	ng Plug Type and Depth(s):		
	· · · · · · · · · · · · · · · · · · ·			
Formations Encountered: Surface:		Top Depth	1	Bottom Depth
Geologic Age	<u>Formation</u>	Lithology	Top Depth	Bottom Depth
Mississippian	Greenbrier	Limestone	2490	2543
Mississippian		Shale	2543	2858
Mississippian	Inju n	Sandstone	2858	2875
Mississippian		Shale	2875	2884
Mississippian	Squaw	Sandstone	2884	2890
Mississippian		Shale	2890	2967
Mississippian	Weir	Sandstone	2967	2975
Mississippian		Shale	2975	3433
Mississippian	Berea	Sandstone	3433	3455
Mississippian		. Shale	3455	3523
Devonian	Gordon	Sandstone	3523	1
Devonian		Siltstone & Shale	3548	3548
Devonian	Huron	Shale		4493
Devonian	Rhinestreet	Organic Shale	4493	7382
Devonian	Marcellus	-	7382	7620
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Organic Shale	7620	TD

SK

WR-35 Rev (9-11)

DATE:	1/22/13	RĘV	. 11/12/14
API #:	47-67-00	946	

Farm name: MeadWestvaco Corp.	Operator Well No.: MWV Rupert 5H					
LOCATION: Elevation: 3.025'	Quadrangle: Richwood					
District: Kenlucky	County: Nich	County: Nicholas				
Latitude: 13.650 Feet South of 38 Deg	. 15 Mir	ı. 00 Sec				
Longitude 8.010 Feet West of 80 Deg	32 Mir	130Sco	: .			
Company: BRC Operating Company, LLC						
Address: 200 Crescent Court, Suite 200	Casing & Tubing	Used in drilling	Left in well	Coment fill up Cu. Ft.		
Dallas, TX 75201	20"	130'	130'	180 Tall		
Agent: Marc A. Montelconc	13 3/8"	1,550'	1,550'	1,443 Tall		
Inspector: Ed Gainer	9 5/8"	6,799'	6,799'	2,706 Lead/202 Tol		
Date Permit Issued: 10/7/10	5 1/2"	12,200	12,200'	1.399 Lead/1.757 Tol		
Date Well Work Commenced: 6/23/11						
Date Well Work Completed: 7/29/11				<u> </u>		
Verbal Plugging:						
Date Permission granted on:			ļ	-		
Rotary Cable Rig 🗸						
Total Vertical Depth (ft): 7,728						
Total Measured Depth (ft): 12,200						
Fresh Water Depth (ft.): 182						
Salt Water Depth (ft.):						
Is coal being mined in area (N/Y)? N						
Coal Depths (ft.): N/A						
Void(s) encountered (N/Y) Depth(s) N						
OPEN FLOW DATA (If more than two producing formation	OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet) Producing formation Marcellus Pay zone depth (tt) 7.600 - 7.760					
Final open flow 0 MCF/d Final open flow				RECEIV		
Time of open flow between initial and final tests 72	Hours	7 C	Off	ice of Oil a	ind Gas	
Static rock Pressure 3,100 psig (surface pressure) aff	Static rock Pressure 3.100 psig (surface pressure) after 36 Hours					
NOV 1 2 2014						
	Gas: Initial case flow ACTA ON A VIII					
Final ones flow MCF/d Final open flow Ph/d VVV Department of				ent of		
Time of open flow between initial and final tests Hours Environmental Protection						
Static rock Pressure psig (surface pressure) aft	cr Hours	3		,		
I certify under penalty of law that I have personally examined a all the attachments and that, based on my inquiry of those indivithat the information is true, accurate, and complete.	ind am familiar i iduals immediat	with the informately responsible	ation submitted for obtaining th	on this document ic information I be	and clieve	
Must		(1//	12/2014			
Signature			Pate			

Were core samples take	en? YesNo_	<u>^</u> w	ere cuttings caught dur	ing drilling? Yes_X_	No
Wore Electrical, Mecha	anical or Geophysical le	ogs recorded on this wel	1? If yes, please list	4WD Gamma Ray (7,043	' - 12,407')
DETAILED GEOLG	OGICAL RECORD	YSICAL CHANGE E	TC. 2). THE WELL L	F PERFORATED IN OG WHICH IS A SYS L FORMATIONS, IN TH.	TERRA A PRICA
Perforated Intervals, Fra	acturing, or Stimulating	3.			:
Perforations - 4 sets	s:				
12,432' - 12,292'	25 Holes				
12,252' - 12,112'	25 Holes				·
12,072' - 11,932'	25 Holes				
11,892' - 11,752'	25 Holes	•			
Plug Back Details Inclu	ding Plug Typc and De	pth(s):			
Formations Encountered Surface:	d:	Top Depth	/	Bottom Dep	<u>ith</u>

Geologic Age	<u>Formation</u>	Lithology	Top Depth	Bottom Depth
Mississippian	Greenbrier	Limestone	2490	2543
Mississippian		Shale	2543	2858
Mississippian	Injun	Sandstone	2858	
Mississippian		Shale	2875	, 2875
Mississippian	Squaw	Sandstone		2884
Mississippian	4		2884	2890
Mississippian	\ar-*-	Shale	2890	2967
·	Weir	Sandstone	2967	2975
Mississippian		Shale	2975	3433
Mississippian	Berea	Sandstone	3433	3455
Mississippian		Shale	3455	3523
Devonian	Gordon	Sandstone	3523	
Devonian		Siltstone & Shale		3548
Devonian			3548	4493
	Huron	Shale	4493	7382
Devonian	Rhinestreet	Organic Shale	7382	7620
Devonian	Marcellus	Organic Shale	7620	TD

WR-35 Rev (9-11)

DATE:	1/22/13	REV. 11/12/14
API#:	47-67-00	1946

Farm name: MeadWestvaco Corp	Operator Well No.: MWV Rupert 7H			
LOCATION: Elevation: 3,040	Quadrangle: Richwood			
District: Kentucky Latitude: 650 Feet South of 38 Dec.	County: Nicho			
Latitude: #50 Feet South of 38 Deg. Longitude 9600 Feet West of 80 Deg				
Company: BRC Operating Company, LLC	·WIIII	<u>30</u> Sec	. .	1
Address: 200 Crescent Court, Suite 200	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Dallas, TX 75201	20"	138'	138'	207 Tail
Agent: Marc A. Montelcone	13 3/8"	1,555'	1,555	1,560 Tail
Inspector:	9 5/8"	6,030'	6,030'	2,038 Lead/190 Tail
Date Permit Issued: 3/22/11	5 1/2"	12,552	12,552'	1 400 Leady 1,600 Tast
Date Well Work Commenced: 4/11/11			,	
Date Well Work Completed: 5/18/11	PLUGS			2,015 Tail
Verbal Plugging:		<u> </u>		2,013 1411
Date Permission granted on:				
Rotary Cable Rig V				
Total Vertical Depth (ft): 7,695				
Total Measured Depth (ft): 12,552				
Fresh Water Depth (ft.): 182				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?			***************************************	į į
Coal Depths (fl.): N/A				
Void(s) encountered (N/Y) Depth(s) N				
OPEN FLOW DATA (If more than two producing formation	ns please includ	e additional dat	a on separate sh	eet)
Gas: Initial open flow 2.369 MCF/d Oil: Initial open flo	one depth (ft) 7.6	7A		RECEIVED
rinal open flow 650 MCF/d Final open flow	Bb1/		Of	fice of Oil and Gas
Time of open flow between initial and final tests 72	Hours			and Gas
Static rock Pressure 3.100 psig (surface pressure) after	erllours			NOV 1 2 2014
Second producing formation Pay zone	e denth (ft)			
Gas: Initial open flow MCF/d Oil: Initial open flo	wBbl/	/d	_ W	V Department of
Final open flow MCF/d Final open flow Bbl/d			Enviro	nmental Protection
Time of open flow between initial and final tests Static rock Pressurepsig (surface pressure) after	Hours			- Totection
certify under penalty of law that I have personally examined an	d am familiar w	ith the informa	tion submitted o	on this document and
If the attachments and that, based on my inquiry of those individual the information is true, accurate, and complete.	luals immediate	ly responsible t	for obtaining the	information I believe
Complete.				
Must		11/1	2/2014	T.
Signature		D	ale	

Were core samples taken? YesNoX	Were cuttings caught during drilling? Yes X No
Were Electrical, Mechanical or Geophysical logs recorded on Guanana Ray / CCL Cassing Collar Locator	this well? If yes, please list
FRACIORING OR STIMULATING, PHYSICAL CHAP	OWING: 1). DETAILS OF PERFORATED INTERVALS, NGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC IS AND BOTTOMS OF ALL FORMATIONS, INCLUDING SURFACE TO TOTAL DEPTH.
Persorated Intervals, Fracturing, or Stimulating:	
Perforations: 12,513' - 8,233' 525 Holes .	
Plug Back Details Including Plug Type and Depth(s):	
Formations Encountered: Top D Surface:	epth / Bottom Depth

Geologic Age	Formation	Lithology	Top Depth	Bottom Depth
Mississippian	Greenbrier	Limestone	2490	2543
Mississippian		Shale	2543	2858
Mississippian	Injun	Sandstone	2858	2875
Mississippian		Shale	2875	2884
Mississippian	Squaw	Sandstone	2884	2890
Mississippian		Shale	2890	2967
Mississippian	Weir	Sandstone	2967	2975
Mississippian		Shale	2975	3433
Mississippian	Berea	Sandstone	3433	3455
Mississippian		Shale	3455	3523
Devonian	Gordon	Sandstone	3523	3548
Devonian		Siltstone & Shale	3548	4493
Devonian	Huron	Shale	4493	7382
Devonian	Rhinestreet	Organic Shale	7382	7620
Devonian	Marcellus	Organic Shale	7620	TD